

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for ~~producing transgenic seed on~~ transforming a dicot plant comprising the steps of:
 - (a) contacting a meristematic tissue of the dicot plant with a medium comprising DNA; comprising a transgene and a plasmid vector having T-DNA border sequences;
 - (b) contacting an area of the dicot plant below the meristematic tissue of step (a) with a positive lead of a power source;
 - (c) contacting the medium comprising DNA with a negative lead of the power source; and
 - (d) applying a low amperage current from the power source, thereby causing the DNA to migrate from the medium to the cells of the meristematic tissue of the dicot plant; and,
 - (e) ~~pollinating the transformed plant.~~
2. (Cancelled).
3. (Currently Amended) The method of claim 12, wherein the plant is a soybean plant.
4. (Cancelled).
5. (Original) The method of claim 1, wherein the plant is a seedling.
6. (Currently Amended) The method of claim 1, wherein the ~~DNA is a~~ plasmid vector is pGA643.
7. (Original) The method of claim 6, wherein the plasmid vector is linearized.
8. (Currently Amended) The method of claim 6, wherein the plasmid vector contains a gene for barley oxalic acid oxidase.
9. (Original) The method of claim 1, wherein the current is about 0.01 to about 1.0 mA.
10. (Original) The method of claim 1, wherein the current is about 0.1 to about 0.5 mA.

11. (Original) The method of claim 1, wherein the meristematic tissue is an apical meristem.
12. (Original) The method of claim 1, wherein the meristematic tissue is a lateral meristem.
13. (Original) The method of claim 1, wherein the meristematic tissue is a meristematic dome.
14. (Original) The method of claim 1, wherein the area of the plant below the meristematic tissue is a root.
15. (Original) The method of claim 1, wherein the area of the plant below the meristematic tissue is a stem.
16. (Original) A transgenic plant produced by the method of claim 1.
17. (Cancelled).
18. (Cancelled).
19. (Cancelled).
20. (New) A transgenic plant produced by the method of claim 8.
21. (New) A method for producing seed of a transformed plant comprising the steps of:
 - (a) propagating the transformed plant produced by the method of claim 1;
 - (b) pollinating the transformed plant; and
 - (c) harvesting seed from the transformed plant.
22. (New) A method for transforming a plant comprising the steps of:
 - (a) contacting a meristematic tissue of the plant with a medium comprising DNA comprising a transgene and a plasmid vector having a T-DNA region and border sequences;
 - (b) contacting an area of the plant below the meristematic tissue of step (a) with a positive lead of a power source;
 - (c) contacting the medium comprising DNA with a negative lead of the power source; and
 - (d) applying a low amperage current from the power source, thereby causing the DNA to migrate from the medium to the cells of the meristematic tissue of the plant.

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23. (New) The method of claim 1 wherein the plasmid vector contains the transgene.

24. (New) The method of claim 22 wherein the plasmid vector contains the transgene.